BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISOIN

Name of Work: Improvements to Roads and Dains at Jakkur layout and other area in Ward No. 08, Amruthahalli

Est Cost : 44.78 Lakhs

ಅಂದಾಜು ಪಟ್ಟಿಯ ವರದಿ

ವಿಷಯ: ವಾರ್ಡ್ ನಂ. 08(ಅಮೃತಹಳ್ಳಿ) ವ್ಯಾಪ್ತಿಯಲ್ಲಿ Improvements to Roads and Dains at Jakkur layout and other area in Ward No. 08, Amruthahalli ಕಾಮಗಾರಿ ಅನುಮೋದನೆ ನೀಡುವ ಕುರಿತು.

ಉಲ್ಲೇಖ: ಮಾನ್ಯ ಆಡಳಿತಗಾರರು, ಬಿಬಿಎಂಪಿ ರವರು ದಿನಾಂಕ: 21.09.2024ರಂದು ನಡೆದ ಸಭಾ ನಡವಳಿ ವಿಷಯ ಸಂಖ್ಯೆ. 192/2024-25

ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ವಾರ್ಡ್ ನಂ. 08(ಅಮೃತಹಳ್ಳಿ) ವ್ಯಾಪ್ತಿಯಲ್ಲಿ Improvements to Roads and Dains at Jakkur layout and other area in Ward No. 08, Amruthahalli ಕಾಮಗಾರಿಗೆ ರೂ. 44.78 ಲಕ್ಷಗಳ ಅಂದಾಜು ಮೊತ್ತದಲ್ಲಿ ಕಾಮಗಾರಿಯನ್ನು ಕೈಗೊಳ್ಳಲು ಉಲ್ಲೇಖದನ್ವಯ ಮಾನ್ಯ ಆಡಳಿತಗಾರರು, ಬಿಬಿಎಂಪಿ ರವರ ದಿನಾಂಕ: 06.08.2024 ರ ನಡವಳಿ ವಿಷಯದ ಸಂಖ್ಯೆ. 95/24-25ರಲ್ಲಿ ಅನುಮೋದಿಸಿರುವಂತೆ 2024-25 ನೇ ಸಾಲಿನ ಆಯವ್ಯಯದ ಪರಿಶಿಷ್ಟ ಜಾತಿ/ಪಂಗಡ ಕಲ್ಯಾಣ ನಿಧಿ ಕಾಮಗಾರಿಗಳ ಯೋಜನೆಯ ಲೆಕ್ಕಶಿರ್ಷಿಕೆ 05-330501 · ಪಿ-1878 ರ ಅಡಿಯಲ್ಲಿ ಮೀಸಲಿಟ್ಟ ಅನುದಾನದಲ್ಲಿ ಕಾಮಗಾರಿಯನ್ನು ನಿರ್ವಹಿಸಲು ಅವಕಾಶ ಕಲ್ಪಿಸಲಾಗಿರುತ್ತದೆ.

ಅದರಂತೆ ವಾರ್ಡ್ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಬರುವ ಜಕ್ಕೂರು ಬಡಾವಣೆ ಅಡ್ಡರಸ್ತೆಗಳಲ್ಲಿ ಸಮರ್ಪಕವಾದ ಚರಂಡಿ ಹಾಗೂ ರಸ್ತೆ ಇಲ್ಲದೇ ಇರುವುದರಿಂದ ರಸ್ತೆ ಮತ್ತು ಚರಂಡಿಯನ್ನು ನಿರ್ಮಾಣ ಮಾಡುವುದು ಅವಶ್ಯಕವಾಗಿರುತ್ತದೆ ಹಾಗೂ ದಾಸರಹಳ್ಳಿ ಕಾಲೋನಿಯಲ್ಲಿ ರಸ್ತೆ ಮತ್ತು ಚರಂಡಿ ನಿರ್ಮಾಣ ಮಾಡುವುದು ಹಾಗೂ ಜಕ್ಕೂರು ಬಡಾವಣೆ 5ನೇ ಅಡ್ಡರಸ್ತೆಯಲ್ಲಿರುವ ಅಂಗನವಾಡಿ ಕಟ್ಟಡದ ಸುತ್ತಲು Chainlink Fencing ಅಳವಡಿಸುವುದು ಅವಶ್ಯಕವಾಗಿರುತ್ತದೆ. ಅಗತ್ಯ ಅಂಶಗಳನ್ನು ಅಳವಡಿಸಿಕೊಂಡು ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ಈ ಕೆಳಕಂಡ ಐಟಂಗಳನ್ನು ಅಳವಡಿಸಿ ತಯಾರಿಸಲಾಗಿರುತ್ತದೆ.

1. ಆರ್.ಸಿ.ಸಿ ಚರಂಡಿಯನ್ನು ನಿರ್ಮಾಣ ಮಾಡುವುದು
2. ಆರ್.ಸಿ.ಸಿ ಚರಂಡಿಗೆ ಪ್ರೀಕ್ಯಾಸ್ಟ್ ಕವರಿಂಗ್ ಸ್ಲಾಭ್‌ಗಳನ್ನುಅಳವಡಿಸುವುದು
3. ಕಾಂಕ್ರೀಟ್ ರಸ್ತೆಗಳ ನಿರ್ಮಾಣ ಮಾಡುವುದು
4. ಕಲ್ವರ್ಟ್‌ಗಳ ನಿರ್ಮಾಣ ಮಾಡುವುದು ಹಾಗೂ ಇತರೆ ಅವಶ್ಯಕ ಅಂಶಗಳಿಗೆ ಅಂದಾಜಿನಲ್ಲಿ ಅವಕಾಶ ಕಲ್ಪಿಸಿಕೊಂಡಿರುತ್ತದೆ.
5. Chainlink Fencing ಅಳವಡಿಸುವುದು ಇತರೆ ಅವಶ್ಯಕ ಅಂಶಗಳಿಗೆ ಅಂದಾಜಿನಲ್ಲಿ ಅವಕಾಶ ಕಲ್ಪಿಸಿಕೊಂಡಿರುತ್ತದೆ.

ಮೇಲ್ಕಂಡ ಅಂಶಗಳನ್ನು ಅಳವಡಿಸಿ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು PWD CSR SR 2023-24, ದರಪಟ್ಟಿ ದರಗಳನ್ನು ಅಳವಡಿಸಿ ತಯಾರಿಸಲಾಗಿರುತ್ತದೆ. ಸದರಿ ಅಂದಾಜು ಪಟ್ಟಿಗೆ 2024-25ನೇ ಸಾಲಿನ ಲೆಕ್ಕ ಶಿರ್ಷಿಕೆ ಪಿ-1878ರ ಅಡಿಯಲ್ಲಿ ಅನುಮೋದಿಸಿ, ಆಡಳಿತಾತ್ಮಕ ಅನುಮೋದನೆ, ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿ ಕಾಮಗಾರಿಯನ್ನು ತುರ್ತಾಗಿ ಕೈಗೊಳ್ಳಬೇಕಾಗಿರುವುದರಿಂದ ಟೆಂಡರ್ ಕರೆದು ಗುತ್ತಿಗೆದಾರರನ್ನು ನೇಮಿಸಿ ಕಾರ್ಯದೇಶ ನೀಡಲು ಈ ಮೂಲಕ ಕೋರಿದೆ.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
W-8

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಕೊಡಿಗೇಹಳ್ಳಿ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

BRUHAT BANGALORE MAHANAGARA PALIKE

Byatarayanapura Division

NAME OF WORK: Improvements to Roads and Dains at Jakkur layout and other area in Ward No. 08, Amruthahalli `

DETAILED COST ESTIMATE

Estimate cost Rs 4478000.00

SL NO	PARTICULARS	UNIT	NO	MEASUREMENT L	B	D	Qty	RATE	AMOUNT
1	**Earth work excavation by manual means** for drains, canals, waste weir, draft, approach channels, key trenches, foundation of Buildings & bridges and such simillar works in all kinds of soils, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. In all kinds of soils Depth upto 1.5 m**[PWD SR 2023-24/ Volume-1/ Chapter-1/P.NO-5/ Item no:-1.4.1]**								
	For drain								
	Jakuur layout cross roads	Cum	1	60.00	0.75	0.75	33.75		
			1	70.00	0.75	0.75	39.38		
	Dasarahalli Colony		1	50.00	0.75	0.90	33.75		
	Culverts	Cum	3	5.50	1.50	1.00	24.75		
	for fencing		1	15.00	0.60	0.60	5.40		
					Total		**137.03**	**266.20**	36476.06
	Basic Rate	**242.00**							
	Add AW 10%	24.20							
	Total	**266.20**							
2	**Providing and laying in position Cement Concrete for levelling course** for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications.Mix 1:4:8 Using 40 mm nominal size graded crushed coarse aggregates**[PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO-15/ Item no:-2.1.2]**								
	PCC								
	for drain	Cum	1	60.00	0.75	0.15	6.75		
			1	70.00	0.75	0.15	7.88		
	dasrahally colony		1	50.00	0.75	0.15	5.63		
	Culverts	Cum	3	5.50	1.50	0.15	3.71		
	for fencing		1	15.00	0.60	0.15	1.35		
					Total		**25.31**	**6230.40**	157707.00
	Basic Rate	**5664.00**							
	Add AW 10%	566.40							
	Total	**6230.40**							

3	**Providing and laying in position Cement Concrete for all Sub structures** of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications.**M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates[PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO-16/ Item no:-2.4.2]**									
	for drain								
	for drain	Cum	1	60.00	0.60	0.15	5.40		
			1	70.00	0.60	0.15	6.30		
	Dasarahalli Colony		1	50.00	0.75	0.15	5.63		
	side wall	Cum	2	60.00	0.10	0.45	5.40		
			2	70.00	0.10	0.45	6.30		
	Dasarahalli Colony		2	50.00	0.10	0.60	6.00		
					Sub-Total A		**35.03**		
	Culverts								
	For Raft		3	5.50	1.50	0.15	3.71		
	For Side Wall		6	5.50	0.25	0.60	4.95		
	Ramp		6	5.50	0.50	0.10	1.65		
	coping fencing		1	15.00	0.50	0.10	0.75		
					Sub-Total B		**11.06**		
					Total A+B		**46.09**	**7650.83**	**352607.63**
	Basic Rate	**6323.00**							
	Add AW 10%	632.30							
	Sub-Total	**6955.30**							
	Centering & Shuttering 10%	695.53							
	Total	**7650.83**							
4	**Steel Fabrication,Supplying, fitting and placing TMT FE 550 / 550D** Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancilary operations complete as per drawing and technical specification .c For Substructure of Bridges**[PWD SR 2023-24/ Volume-1/ Chapter-2/P.NO-91/ Item no:-2.11 h]**									
	Qty videIt 3 (a) @60kg/cum		1	35.03		60.00	2101.50		
	Qty vide It 3(b) @80kg/cum]		1	11.06		80.00	885.00		
						Kg	**2986.50**		
						Tonne	2.99		
						Total	**2.99**	**86912.10**	**259562.99**
	Basic Rate	**79011.00**							
	Add AW 10%	7901.10							
	Total	**86912.10**							
5	**Providing and laying 100mm thick pre-cast cover slabs** over Road side drains / utility ducts / Rain water harvesting pit of width not exceeding 1000 mm using M20 concrete reinforced with TMT bars Fe 550 @ 6kg/m2, slabs jointed in CM 1:3 proportion and nicely finished Including providing holes in the Cover slabs wherever necessary for easy drain age of surface waterincluding of labour, materials, scaffolding, usage of machinery, curing, lead and lift charges etc, Complete.**[PWD SR 2023-24/ Volume-2/ Chapter-2/P.NO-177/ Item no:-17.14]**									
	New CC Slabs - 100mm								

		Sqm	1	60.00	0.60		36.00		
			1	70.00	0.60		42.00		
	Dasarahalli Colony		1	50.00	0.75		37.50		
	MISSING SLABS	Sqm	25	0.60	0.90		13.50		
						Total	**129.00**	**1287.00**	166023.00
	Basic Rate	**1170.00**							
	Add AW 10%	117.00							
	Total	**1287.00**							
6	**Providing and fixing 230mm thick pre cast reinforced concrete slab** as per design and drawing material cost,transportation, hire charges of machinery complete with all lead and lift conveyance charges labour charges inclusive of cost of all materials(As per data rate)								
	For Culverts	Sqm	3	5.50	1.20		19.80		
						Total	**19.80**	**5037.00**	99732.60
	Data Rate	**5037.00**							
							drain total		
	Road work								
7	**Dismantling of cement concrete pavement** by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separately.**(PWD SR 2023-24 Vol -III Pg 12 item no 2.19)**								
	Jakkur layoout cross roads	**cum**	1	60.00	2.70	0.10	16.20		
			1	70.00	2.70	0.10	18.90		
			1	30.00	2.50	0.10	7.50		
			1	60.00	2.10	0.10	12.60		
			1	35.00	2.10	0.10	7.35		
						Total	**62.55**	619.30	38737.22
	Basic rate	563.00							
	Area weightage 10%	56.30							
	Sub Total	**619.30**							
8	**Construction of dry lean cement concrete Sub- base over a** prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 14:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 140 kg/ m3 , optimum moisture content to be determined during trial length construction, concrete strength not to be less than 7 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 t vibratory roller, finishing and curing..**(PWD SR 2023-24 Vol -III Pg 49 item no 6.2)**								
	levelling course		**1**	60.00	2.70	0.15	24.30		
			1	70.00	2.70	0.15	28.35		
			1	30.00	2.50	0.15	11.25		
			1	60.00	2.10	0.15	18.90		
			1	35.00	2.10	0.15	11.03		
	Dasarahally colony road		**1**	80.00	7.00	0.15	84.00		
						Total	**177.83**	5412.00	962388.90
	Basic rate	4920.00							
	Area weightage 10%	492.00							
	Sub Total	**5412.00**							

9	**Construction of un-reinforced plain cement concrete pavement using RMC M-30 grade** with OPC @ 270 kg/m3 and GGBS@ 90 kg/m3 (75:25 proportion) as per approved mix design procedure and thickness as per design, over a prepared sub base. The superplastisiser confirming to IS 9103-1999 Reaffirmed-2008 ,Coarse aggregates and Fine aggregate confirming to IS:383-2016, transported to site, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work). Spreading the concrete with shovels, rackers and compacted using needle, suitable plate vibrator and finished in a continuous operation including provision of separation membrane and Hessian cloth finishing to lines and grades complete including cost of all materials, labour, all lead & lift, loading charges as per specification & direction of Engineer - incharge of the work. (Groove cutting shall be paid seperately) **(PWD SR 2023-24 Vol -III Pg 51 item no 6.6)**									
	levelling course		1	60.00	2.70	0.15	24.30		
			1	70.00	2.70	0.15	28.35		
			1	30.00	2.50	0.15	11.25		
			1	60.00	2.10	0.15	18.90		
			1	30.00	2.10	0.15	9.45		
			1	80.00	7.00	0.15	84.00		
							176.25	7451.40	1313309.25
	Basic rate	6774.00							
	Area weightage 10%	677.40							
	Sub Total	**7451.40**							
	Fencing work								
10	**Providing Size Stone masonry with hard stone in foundation & plinth** with Cement mortar 1:6 (1 cement : 6 coarse sand)(PWD SR 2023-24 Vol -II Pg 9 item no 5.4)								
		cum	**1**	15.00	0.50	0.60	4.50	7027.90	31625.55
	Basic rate	6389.00							
	Area weightage 10%	638.90							
	Sub Total	**7027.90**							
11	**Providing and fixing G.I. chain link fabric fencing** of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineerin- charge. (Made of G.I. wire of dia 4 mm) (PWD SR 2023-24 P 95 It 11.58)								
	Chain link fencing		**1**	25.00		2.50	**62.50**	883.30	**55206.25**
	Basic Rate	**803.00**							
	Add AW 10%	80.30							
	Total	**883.30**							
12	**Providing and fixing Steel work welded in built up sections/** framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, **gates and similar works** including cost of materials, labour, usage charges of machinery complete as per pecifications and as per directions of the Engineer-in-Charge. **(PWD SR 2023-24 P 84 It 11.25.2)**								
a	**for M S Gate**	**kgs**	1	3.50		1.50	5.25		
			1	1.20		1.50	1.80		
							7.05		
				wt of gate @25 kg/sqm			**176.25**		
b	50x50x6 mm built up MS angles for fencing poles		14x2	3.00			84.00		
				wt of angle @ 4.5			378.00		
							554.25		

c	40 mm dia block pipes 3.25 mm thick for fencing								
			3	25.00			75.00		
							235.50		
	Basic Rate	**136.00**			total wt a+b+c		**966.00**	149.60	144513.60
	Add AW 10%	13.60							
	Total	**149.60**							
13	Unloading, Loading & Carriage of MaterialsLoading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum. (Tipper 5.5 m3)**[PWD SR 2023-24/ Volume-3/ Chapter-1/P.NO-5/ Item no:-1.1 a]**								
	Quantity From Item 1 +7	Cum	1	199.58			199.58		
						Total	**199.58**	**148.50**	29636.89
	Basic Rate	**135.00**							
	Add AW 10%	13.50							
	Total	**148.50**							
14	Cost of Haulage Excluding Loading and Unloading,Taking output 10 t load and lead 10 km = 100 t.km**[PWD SR 2023-24/ Volume-3/ Chapter-1/P.NO-3/ Item no:-1.4 iii A]**								
	Quantity from Item No-1	t.km	1	199.58	1.28		255.46		
						Total	**255.46**	**198.00**	50580.29
	Basic Rate	**12.00**							
	15KM LEAD [12*15=180]	180.00							
	Add AW 10%	18.00							
	Total	**198.00**							
							Total		3698107.21
							GST 18%		665659.30
							Tender Premium 3%		110943.22
							Miscelleneous		3290.28
							Grand Total		4478000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2023-24 and Data Rates.

Assistant Engineer
Ward 08,Amruthahalli

Asst.Executive Engineer
Kodigehalli Sub-Division
BBMP

Asst.Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Executive Engineer
Byatarayanapura Division
BBMP

ADMINISTRATIVE SANCTION

Accorded for Rs. 44.78 Lakhs

Head of A/c. P1878

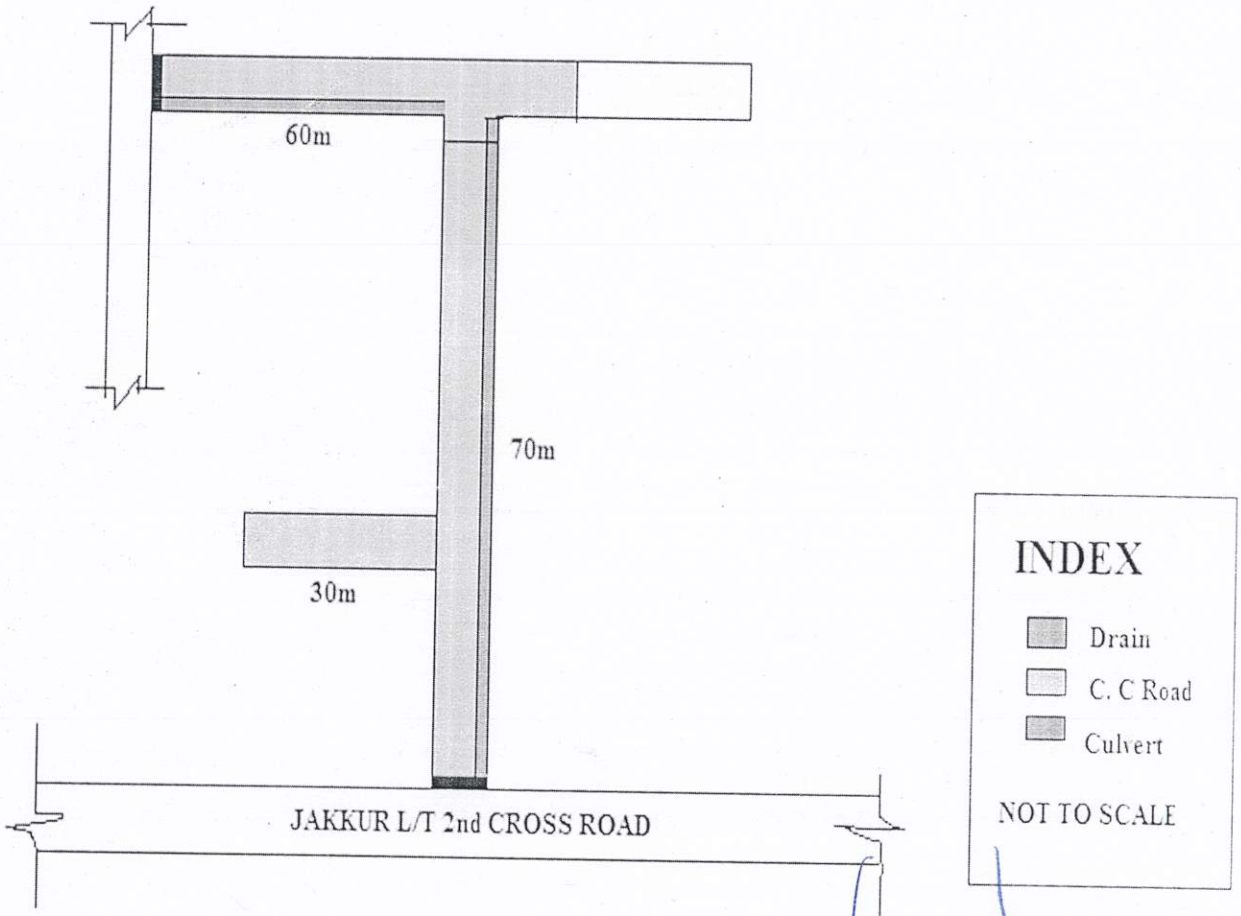
Div. Ref. No. 45 Date 15/10/24

AE/DM

EE(BTP) BBMP

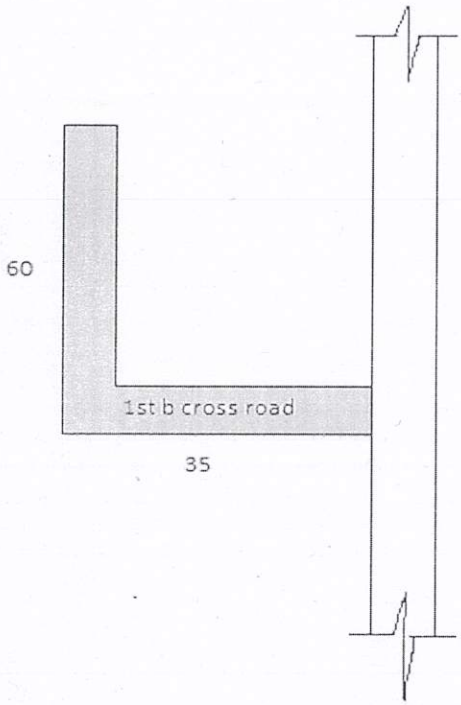
Technical Sanction
Accorded For 8.44.78 Lakhs
Head of A/C. P1878
CER NO : 52 **Dt:** 15/10/24

Name of work : Improvements to road and drains at Jakkur Layout and other area in ward no 08 Amruthahalli



Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Name of work : Improvements to road and drains at Jakkur Layout and other area in ward no 08 Amruthahalli



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C.C ROAD

NOT TO SCALE